SIEMENS

Laser Light Localizer

SP

Installation Instructions

Option

Installation Instructions

Valid for:
SIREMOBIL Compact
ARCADIS Varic

© Siemens AG 2004
The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Print No.: RXR2-130.812.01.02.02
Replaces: RXR2-130.812.01.01.02

English
Doc. Gen. Date: 01.05

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

Table of Contents 3

1 Safety Information 4

Protection against laser beams . . . 4
Labels for U.S.A.: . . . 4
Labels for all other countries: . . . 5

2 Prerequisites and Preparation 6

Note . . . 6
Required parts . . . 7
Required aids . . . 8
Removing the cover . . . 8

3 Installation, Wiring, and Programming 9

Wiring on the SIREPHOS . . . 9
Installing the localizer unit on the SIREPHOS . . . 9
1a. Changing the configuration (only SIREMOBIL Compact): . . . 10
1b. Changing the configuration (only ARCADIS Varic): . . . 11

4 Functional Test and Final Steps 12

Functional test . . . 12
Final steps . . . 13
Attaching the cover . . . 13
Attaching the cover panels . . . 13
Installing the I.I. attachment . . . 13
Affixing the identification labels for the U.S.A. . . . 14
Affixing the identification labels for Great Britian and other countries . . . 16

5 Changes to Previous Version 18

Protection against laser beams

This product contains two Class 2 lasers (USA: Laser class 2).

Observe the safety information in ARTD-002.731.03.xx.xx.

When working with the laser light localizer, do no look directly into the laser beam.

Labels for U.S.A.:

Fig. 1: Laser-Klasse-Piktogram

Fig. 2: Certification label

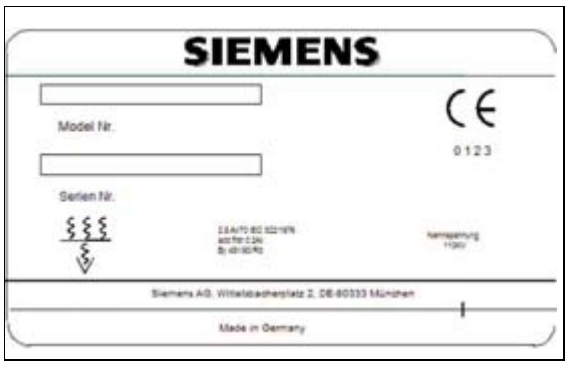

Fig. 3: Identification label

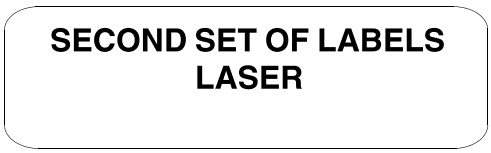

Fig. 4: Label

Fig. 5: Laser aperture label

Labels for all other countries:

Warning label according to IEC 825

Fig. 6: Warning label according to IEC 825

(use local language)

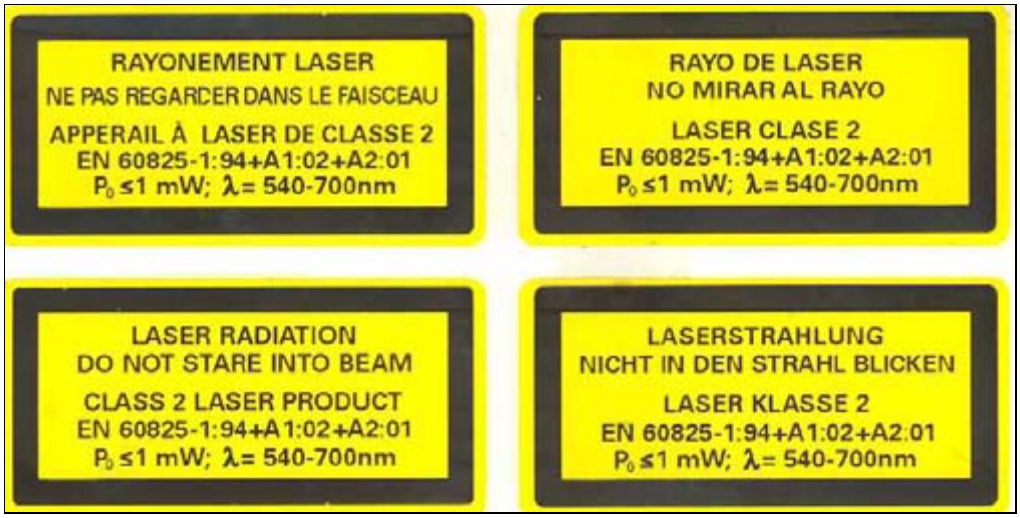

Fig. 7: Warnschilder nach IEC 825

Identification label:

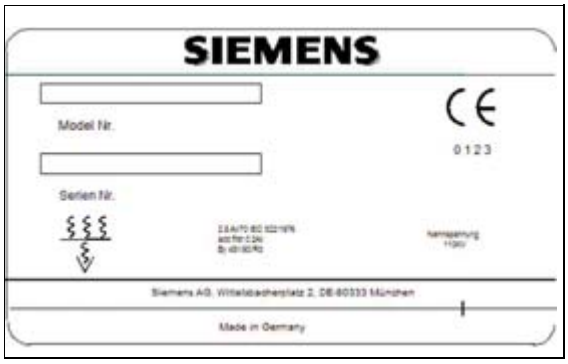

Fig. 8: Identification label

SECOND SET OF LABELS
LASER

Fig. 9: Label

Note

These installation instructions only apply to retrofitting SIREMOBIL Compact or ARCADIS Varic systems with a laser light localizer.

Required parts

Laser light localizer complete for ARCADIS Varic	80 79 720
Laser light localizer complete for SIREMOBIL Compact	37 79 001 G5429

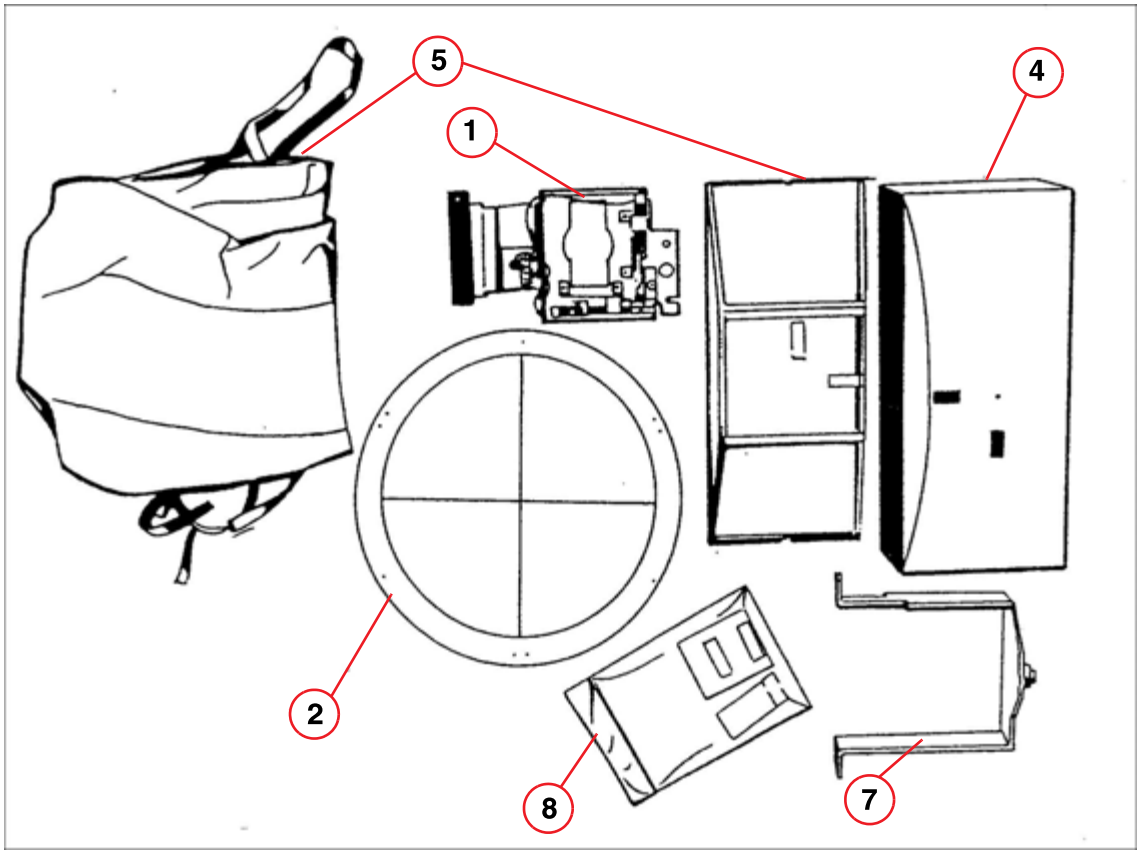

Fig. 10: Overview of required parts

Tab. 1 List of required parts

1	Localizer unit
2	I.I. attachment 23 cm (9") I.I. (only ARCADIS Varic)
2	I.I. attachment 17 cm (7") and 23 cm (9") I.I. (only SIREMOBIL Compact)
4	SIREPHOS cover
5	Sterile covers
7	Adjustment device
8	Warning labels according to IEC 825 (text and symbol)
8	Identification label
8	For U.S.A.: “Laser class 2” warning logotype and DHHS certification label
8	Various small parts

Required aids

- Service PC (only SIREMOBIL Compact)
- Toolbox (including Allen key)

Removing the cover

- Disconnect the system power plug.
- Remove the cover plate from the basic unit.
- Remove the SIREPHOS cover by carefully loosening the bonding surfaces on the long sides of the cover.

Wiring on the SIREPHOS

- Loosen and remove the cover from the tube collimator.
- Route the spare leads (white and gray) up and out through the back.
- Replace the cover of the tube collimator.

Installing the localizer unit on the SIREPHOS

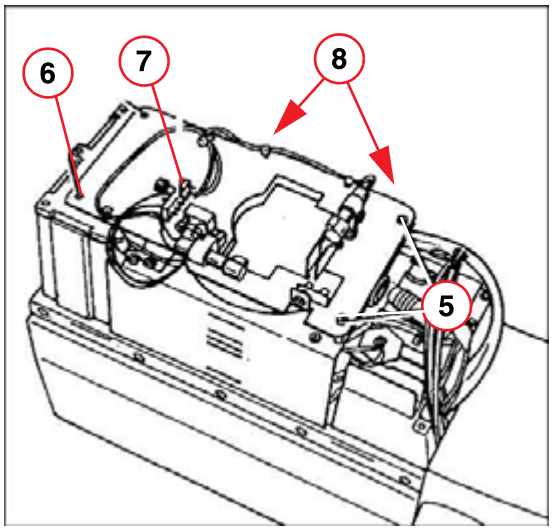

Fig. 11: SIREPHOS localizer unit

Pos. 5 Screws
Pos. 6 Threaded holes
Pos. 7 Solder terminal
Pos. 8 Cable ties

- Loosen the screw (5/Fig. 11 / p. 9).
- Insert the bolts provided into the threaded holes.
- Place the spacers provided over the threaded holes (6/Fig. 11 / p. 9).
- Attach the localizer unit (Fig. 11 / p. 9) and secure to the SIREPHOS using 4 screws. (5/Fig. 11 / p. 9)(6/Fig. 11 / p. 9)
- Solder spare lead "white" to solder terminal X55.1.
- Solder spare lead "gray" to solder terminal X55.4.
- Secure the two spare leads using cable ties.

1a. Changing the configuration (only SIREMOBIL Compact):

- Connect the service PC to the serial interface of the SIREMOBIL.
- The service program must already be installed on the PC.
- Remove the service program floppy disk from the log book and insert into drive A.
- Switch on the system.
- Switch on the service PC.
- Start the service program.
- Click "Get from Unit".
- Select "Laser" in the Adjustment, Parameters menu.
- Select **yes** for "Laser existing".
- Click "Set Value".
- Click "Put to unit".
- Wait for the system to boot.
- Back up the parameters (Data menu, Backup, Parameter).

1b. Changing the configuration (only ARCADIS Varic):

- Log on to the service menu.
- Click <Main System>-<Configuration>-<Options>.
- Set "Laser Existing" to <yes> and click <Save>.
- Back up the parameters.

Functional test

- Switch on the system.
- Die Funktion des Tasters am Bedienpult des Grundgerätes testen: Bei eingeschaltetem Laserlichtvisier müssen die beiden Laserdioden und die LED im Taster leuchten.
- Test the automatic shut-off of the laser light localizer: Switch on the laser light localizer. The two laser diodes must shut off automatically after 5 minutes.

NOTE

Before performing the final steps, the laser light localizer has to be adjusted according to the adjustment instructions provided.

Final steps

Attaching the cover

NOTE	**The laser light localizer has to be adjusted before attaching the cover.**

- Place the cover provided on the SIREPHOS.
- Tighten the cover screws.

Note for U.S.A.:	When using the laser light localizer, remove the spacer!

Attaching the cover panels

- Replace the cover panels on the SIREMOBIL.

Installing the I.I. attachment

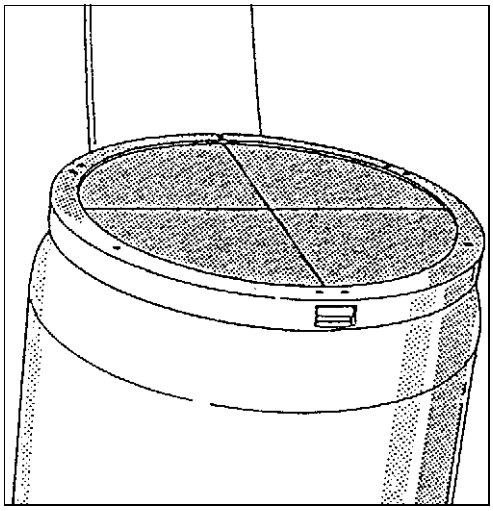

Fig. 12: I.I. attachment

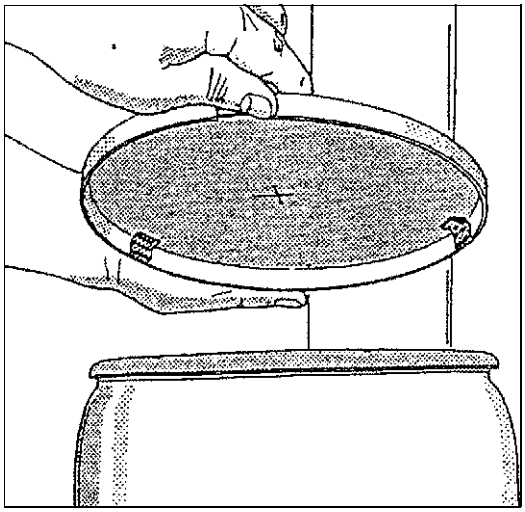

Fig. 13: I.I. attachment

- Install the I.I. attachment on the I.I. retaining ring using the three clamps (Fig. 12 / p. 13) (Fig. 13 / p. 13). A cassette holder can no longer be installed. The fluoroscopy grid remains on the I.I. input.

Affixing the identification labels for the U.S.A.

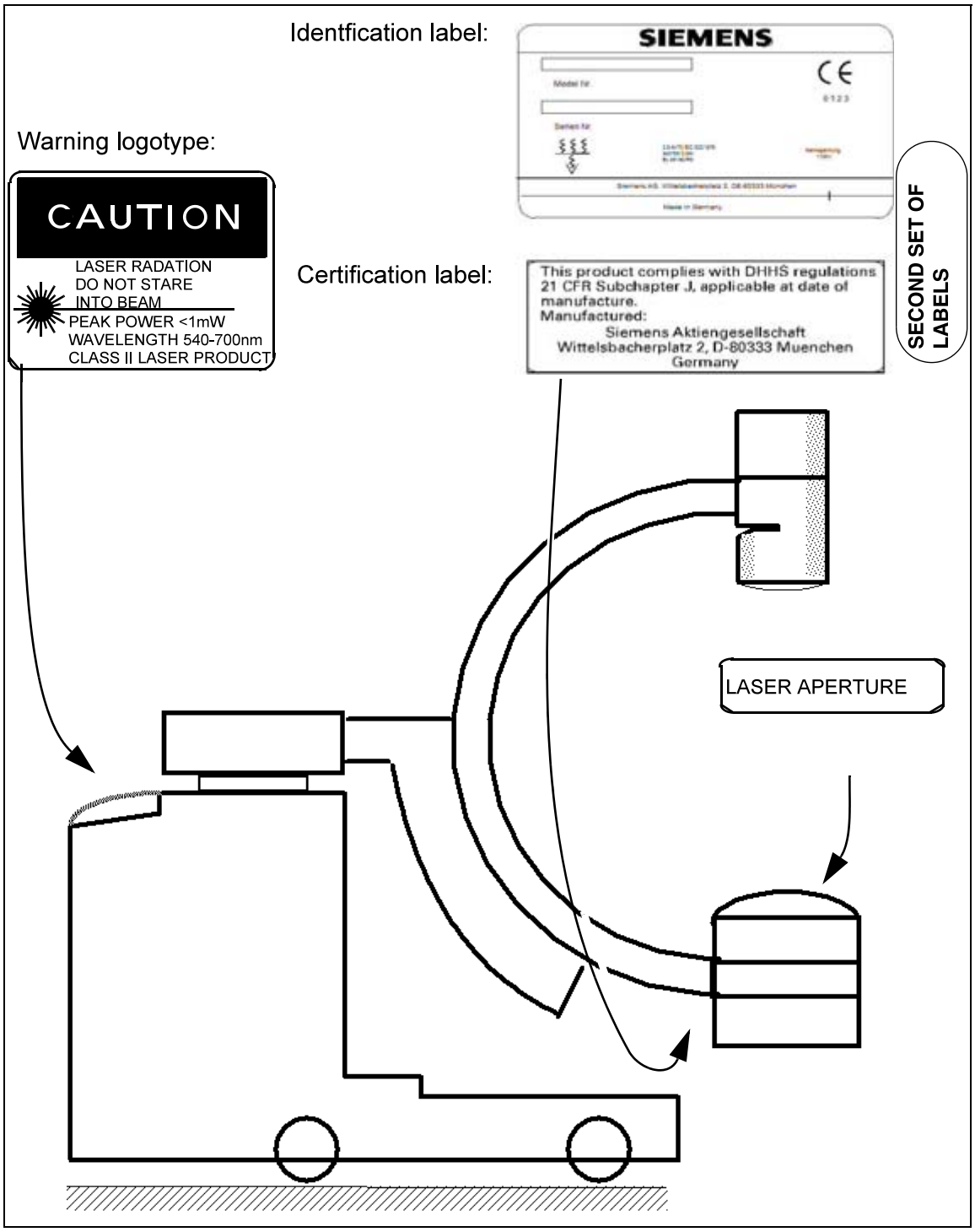

Fig. 14: Checking the identification labels

- Affix the identification labels provided (Fig. 14 / p. 14) (Fig. 15 / p. 15).

  Affix the identification label, "Laser class 2" warning logotype, DHHS certification label, and the two laser aperture labels.

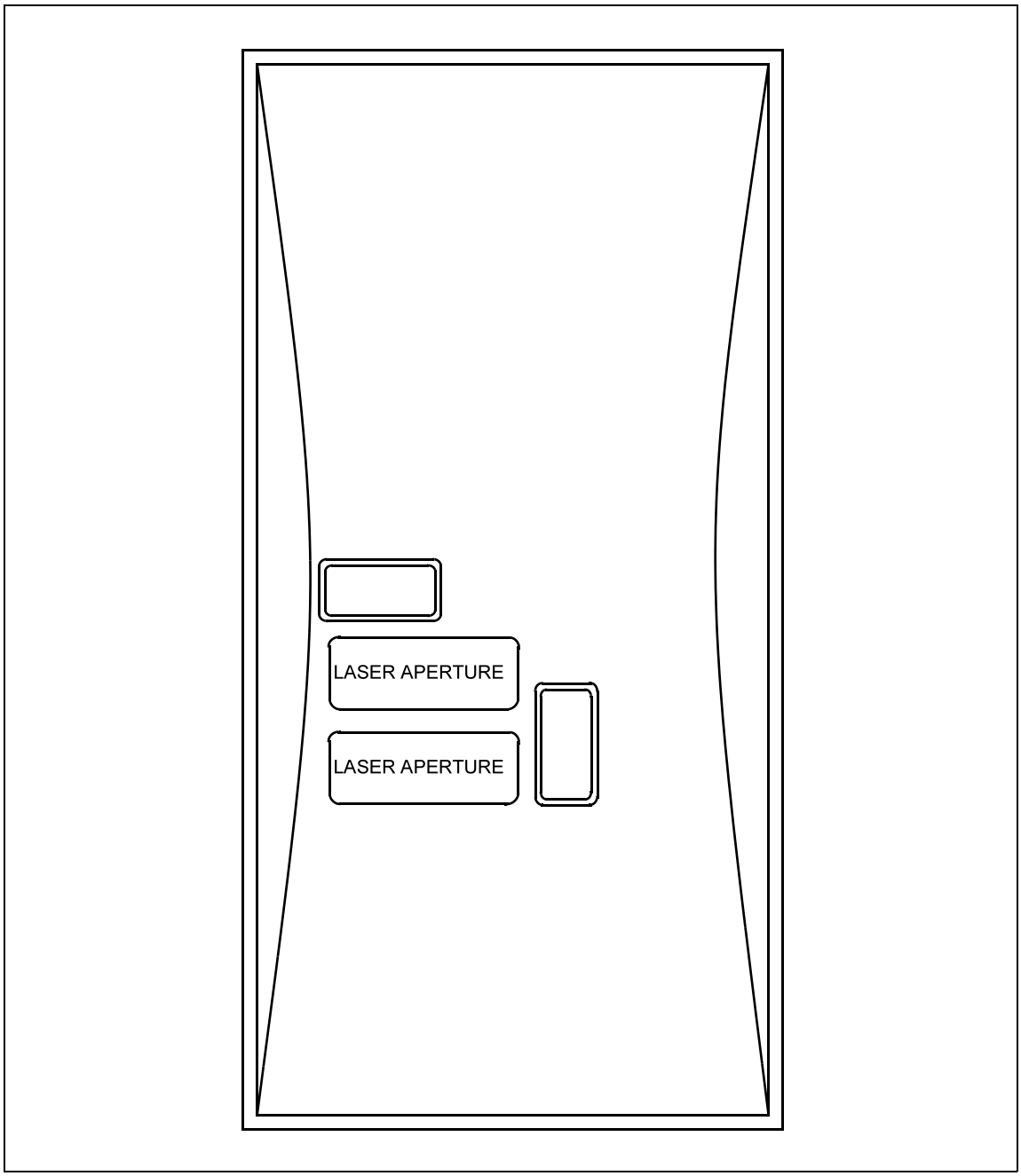

Fig. 15: Label for C-arm side

Affixing the identification labels for Great Britian and other countries

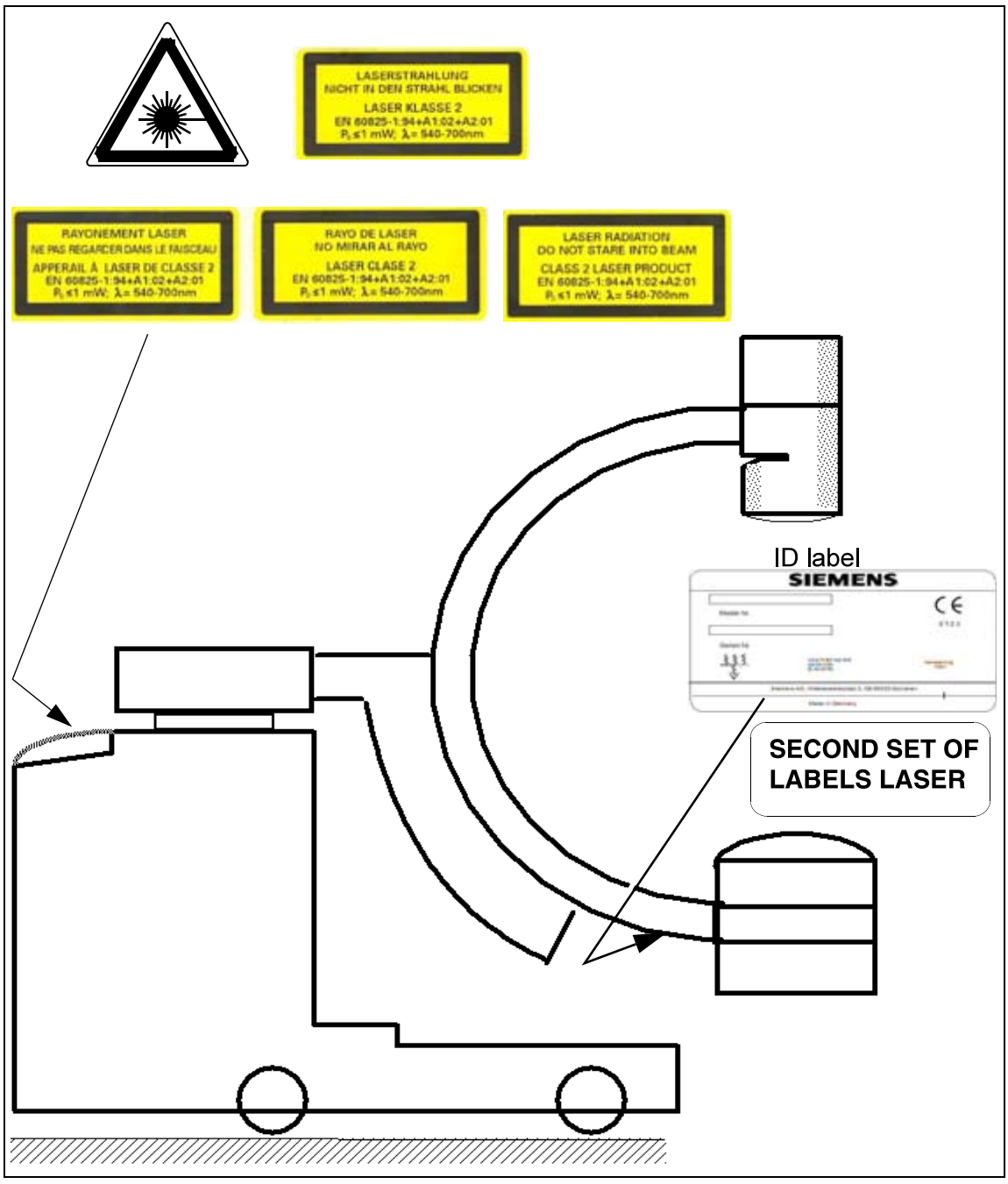

Fig. 16: Affixing the warning labels

- Affix the identification labels provided as shown in (Fig. 16 / p. 16) (other countries).

Great Britain:	Affix warning label according to IEC 825 (text) in local language, warning label according to IEC 825 (symbol) and identification label. Also affix laser aperture labels (Fig. 15 / p. 15).
Other countries:	Affix warning label according to IEC 825 (text) in local language, warning label according to IEC 825 (symbol) and identification label.

18 Changes to Previous Version

Cover sheet changed